CIVIL AIM CONSULTANTS & ENGINEERS

(Building Geo-Tech & Highway Materials Testing Laboratory)

An ISO 9001-2015 Certified Company

NABL Accredited As Per ISO/IEC 17025:2017 Laboratory

Ref: CACE/BBMP/NLDB/W.No.12/2022-23

Name of Work :"Improvements to roads and footpath at Kempegowda Garden and Abbigere Village in Ward No.12, BBMP, Bangalore.

Name of Client	:	**Executive Engineer, Dasarahalli Division, BBMP, Bangalore.**
Contractor/Agency	:	**M/s. Nijaguna Land Developers and Builders (Prop. T Nijaguna Gowda), Contractor, Bangalore.**
Estimate Cost	:	Rs. 29.99 lakhs
Date of Inspection	:	08.07.2022
Status of Bill	:	1st and Final
In the Presence of	:	(a) **Assistant Engineer ,** Shettyhalli Sub Division Bangalore.
	:	(b) **Mr. Prajwal,** Engineer M/s. Civil Aim Consultants & Engineers

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಶೆಟ್ಟಿಹಳ್ಳಿ ಉಪವಿಭಾಗ
ಜಿಬಿಎಂಪಿ, ಬೆಂಗಳೂರು

Sl.No	Description of the Item		Comments / observations
1	Earthwork excavation by manual means for roads, drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per	:	Work done up to the quantity and Quality is satisfactory
2	Providing and laying in position plain cement concrete of Mix 1:3:6 with OPC @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @ 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM curing complete as per	:	Work done up to the quantity and Quality is satisfactory

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Sl.No	Description of the Item		Comments / observations
3	KSRRB M2200-5.12. Providing and laying Design mix M25 with OPC @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @0.7cum and fine aggregates @ 0.47cum, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008	:	Work done up to the quantity and Quality is satisfactory
4	KSRRB M2200-6. Providing T.M.T. steel reinforcement for R.C.C. work including straightening, cutting, bending, hooking, placing in position, lapping and/or welding wherever required, tying with binding wire and anchoring	:	Work done up to the quantity and Quality is satisfactory
5	Providing and Fixing Pre-cast reinfrocement cement concrete covering slabs of 10cm thick made out of M25 with OPC cement @340kgs per cum 20mm and down size graded granite metal coarse aggregates @0.70cum and fine aggregates @0.74 cum with super plasticreses machine mixed for edges of slab with TMT steel (Fe500) to cost & reinfrocement etc.., complete as directed by engineer incharge of the work.	:	Work done up to the quantity and Quality is satisfactory
6	Scarifying by mechanical means stone metal crust 90mm to 100mm thick by along with 20mm premix carpet I surface dressing and stacking of old serviceable materials including cost of all labour charges, HOM complete as per specifications.	:	Work done up to the quantity and Quality is satisfactory
7	Excavation for roadwork in all types of soil by mechanical means including cutting and loading to<tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a	:	Work done up to the quantity and Quality is satisfactory

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Sl.No	Description of the Item		Comments / observations
8	Construction of granular sub-base Grading-V as Sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite/ trap/basalt material, mixing in a mechanical mix plant at OMC, Carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98 % proctor density complete as	:	Work done up to the quantity and Quality is satisfactory
9	Providing, laying, spreading and compacting cushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications.	:	Work done up to the quantity and Quality is satisfactory
10	Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means	:	Work done up to the quantity and Quality is satisfactory
11	Providing and applying tack coat using 80/100 grade bitumen(VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM complete as per specifications.	:	Work done up to the quantity and Quality is satisfactory

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12	Providing and laying dense graded bituminous macadam using crushed aggregates of specified grading; premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and ialignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications.- do - using 40/60 TPH capacity H.M.P. with Mechanical paver Gr-ll Cum (50 mm to 75 mm) with 4.5 % VG-30 Bitumen	:	Work done up to the quantity and Quality is satisfactory
13	Providing and laying bituminous concrete 40mm thick with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher	:	Work done up to the quantity and Quality is satisfactory
14	Providing and fixing pre cast solid cement concrete kerb stones made out of C.C. 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting, including form work, curing, including cost of all materials, labour, hire charges of machinery, loading, unloading, lead and lift, transportation etc. complete	:	Work done up to the quantity and Quality is satisfactory
15	Painting two coats after filling the surface with synthetic enamel paint in all shades on new plastered concrete surfaces complete as per specifications. MORTH Specification No. 803	:	Work done up to the quantity and Quality is satisfactory
16	Road Marking with Hot Applied Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface/ Concrete Surface: Providing and laying of hot applied thermoplastic compound 2.5 mm thick including	:	Work done up to the quantity and Quality is satisfactory

For CIVIL AIM CONSULTANTS & ENGINEERS

Authorised Signatory

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